

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: *Using GIS to Highlight Highway Segments Sensitive to Deicing Materials*

OBJECTIVES: Develop a geospatial tool that incorporates data about roadways, topography, hydrology, and ecology to model the impact of de-icing chemical application on the local environment.

PERIOD COVERED: October 1 to October 31, 2023

PARTICIPATING AGENCIES: Minnesota Department of Transportation and the Clear Roads Technical Advisory Committee

PROJECT MANAGER:

Hafiz Munir / Tom Peters

SP&R PROJECT NO:

MnDOT Contract No.
1044529

PROJECT IS:

☐ Planning
☒ Research & Development

LEAD AGENCY: MnDOT

PRINCIPAL INVESTIGATOR:

Mark Gallagher, SRF Consulting

Federal Project Number:
TPF-5(353)

ANNUAL BUDGET: \$49,279

REVISED: \$71,116

PROJECT BUDGET: \$155,002

PROJECT EXPENDITURES TO DATE: \$ 144,898.77

WORK COMPLETED:

- Solicited participants for a second test period.
- Supported test participants.
- Finished edits on first instructional video.
- Made first draft cut of second instructional video.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Continued work on expanded scope items.
 - Summarize testing.
 - Finals cuts of both video guides.
 - Submit Draft Final and Final Reports.

STATUS AND COMPLETION DATE:

Time and funds were added to the project to allow for revisions to the GIS Tool, expanded testing, and the additional of a User's Guide.